## IN THE CLAIMS

Please cancel without prejudice claims 13-17.

- 1. (Original) A semiconductor device comprising:
  - a package; and

a die mounted in the package, the die comprising first circuitry to substantially cancel resonance between an inductance of the package and a capacitance of the die.

2. (Original) The semiconductor device of claim 1, wherein the first circuitry comprises:

a current source;

an inductor coupled to the current source in series; and

a power supply operable with the current source and the inductor to substantially cancel the resonance.

- 3. (Original) The semiconductor device of claim 2, wherein the current source comprises a resistor.
- 4. (Original) The semiconductor device of claim 2, wherein the current source comprises a transistor.
- 5. (Original) The semiconductor device of claim 2, wherein an inductance of the inductor is substantially equal to the inductance of the package.
- 6. (Original) The semiconductor device of claim 1, wherein the first circuitry comprises:

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a bull; capacitor; and

second circuitry coupled to the bulk capacitor to drive the bulk capacitor to substantially cancel the resonance.

- 7. (Original) The semiconductor device of claim 6, wherein the second circuitry comprises an amplifier.
- 8. (Original) The semiconductor device of claim 7, further comprising a plurality of preemptive resistors coupled to a first input of the amplifier and for coupling a plurality of current drawing modules in the die to the amplifier to drive the amplifier.
- 9. (Original) The semiconductor device of claim 8, further comprising one or more feedback resistors to couple the bulk capacitor to a second input of the amplifier.
- 10. (Original) The semiconductor device of claim 9, wherein the first circuitry further comprises one or more inductors coupled to the capacitor.
- 11. (Original) The semiconductor device of claim 10, wherein an equivalent inductance of the one or more inductors is substantially equal to the inductance of the package.
- 12. (Original) The semiconductor device of claim 1, further comprising an off-die capacitor, wherein the first circuitry is operable with the off-die capacitor to substantially cancel the resonance.

- 13. (Canceled)
- 14. (Canceled)
- 15. (Canceled)
- 16. (Canceled)
- 17. (Canceled)
- 18. (Original) A system comprising:
  - a dynamic random access memory (DRAM); and
  - a memory controller coupled to the DRAM, wherein the memory controller comprises a package, and
  - a die mounted in the package, wherein the die comprises first circuitry to

substantially cancel resonance between an inductance of the package and a capacitance of the die.

- 19. (Original) The system of claim 18, wherein the first circuitry comprises:
  - a current source;
  - an inductor coupled to the current source in series; and
- a power supply operable with the current source and the inductor to substantially cancel the resonance.

- 20. (Original) The system of claim 19, wherein the cutrent source comprises a resistor.
- 21. (Original) The system of claim 19, wherein the current source comprises a transistor.
- 22. (Original) The system of claim 19, wherein an inductance of the inductor is substantially equal to the inductance of the package.
- 23. (Original) The system of claim 18, wherein the first circuitry comprises:
  a bulk capacitor; and
  second circuitry coupled to the bulk capacitor to drive the bulk capacitor to substantially
  cance) the resonance.
- 24. (Original) The system of claim 23, wherein the second circuitry comprises an amplifier.
- 25. (Original) The system of claim 24, wherein the memory controller further comprises a plura ity of preemptive resistors coupled to a first input of the amplifier and for coupling a plura ity of current drawing modules in the memory controller to the amplifier to drive the amplifier.
- 26. (Original) The system of claim 25, wherein the memory controller further comprises one or more feedback resistors to couple the bulk capacitor to a second input of the amplifier.
- 27. (Original) The system of claim 26, wherein the memory controller further comprises one or more inductors coupled to the capacitor.

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- 28. (Original) The system of claim 27, wherein an equivalent inductance of the one or more inductors is substantially equal to the inductance of the package.
- 29. (Original) The system of claim 18, further comprises an off-die capacitor operable with the first circuitry to substantially cancel the resonance.
- 30. (Original) The system of claim 18, further comprising a processor coupled to the memory controller.